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IN THE UNITED STATES PATENT & TRADEMARK OFFICE

Patent No. : 7,084,886
Issued : August 1, 2006
Title : USING DETAIL-IN-CONTEXT LENSES FOR ACCURATE
DIGITAL IMAGE CROPPING AND MEASUREMENT
Applicant : Jetha, et al.
Application No. : 10/614,754
Filed : July 8, 2003
Confirmation No. : 6139
Art Unit : 3663
Examiner : Matthew Luu
Docket No. : 198821-367626
Customer No. : 27,155

Certificate
OCT 05 2006
of Correction

Commissioner of Patents
Office of Patent Publication
Attention: Certificates of Correction Branch
P.O. Box 1450
Alexandria, V.A. 22313-1450

REQUEST FOR CERTIFICATE OF CORRECTION

Sir:

The Applicant respectfully requests the issue of a Certificate of Correction for the above noted patent.

The errors for which corrections are requested were made by the Patent Office. The requested corrections are as follows:

OCT 10 2006

1. Claim 6, column 21, line 3: Replace the second occurrence of the word -- said -- with the word -- a -- .
2. Claim 15, column 21, line 37: Delete the word -- screen -- .
3. Claim 19, column 22, line 25: Delete the word -- screen -- .
4. Claim 21, column 22, line 42: Replace the second occurrence of the word -- said -- with the word -- a -- .
5. Column 3, line 59: Insert the following four paragraphs at the end of the "SUMMARY OF THE INVENTION" section before the heading "BRIEF DESCRIPTION OF THE DRAWINGS":

-- According to one aspect of the invention, there is provided a method for cropping a computer generated original image on a display, comprising the steps of: adjusting a user-selected movable boundary on said original image to define a cropped image within said boundary, said boundary defined by two or more points on said original image; distorting said original image in regions surrounding said points by applying a lens to one or more of said regions, whereby said boundary is accurately positioned for cropping; and, displaying a graphical user interface ("GUI") over one or more of said regions for adjusting said lens; wherein said lens includes a focal region and a base region and said GUI includes at least one of: a slide bar icon for adjusting a magnification for said lens; a slide bar icon for adjusting a degree of scooping for said lens; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said focal region; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said base region; a move icon for adjusting a location for said lens on said boundary; a pickup icon for adjusting a location for said base region within said original image; and, a fold icon for adjusting a location for said focal region relative to said base region. In the above method, said adjusting may be performed by moving a cursor on said display with a pointing device. The cursor may be an icon. The pointing device may be a mouse. The movable boundary may be a polygon. The original image may have one or more layers. The regions may have a predetermined selection of said layers. And, the cropped image may have a predetermined selection of said layers. --

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-- According to another aspect of the invention, there is provided a method for cropping a computer generated original image on a display, comprising: adjusting a user-selected movable boundary on said original image to define a cropped image within said boundary, said boundary defined by two or more points on said original image; and, distorting said original image in respective regions surrounding said points to produce a distorted image by displacing said original image onto a lens for each region and perspectively projecting said displacing onto a plane in a direction aligned with a viewpoint for said region, whereby said boundary is accurately positioned for cropping. In the above method, said distorting may further include displaying said boundary over said distorted image on said display. The method may further include displaying a graphical user interface ("GUI") over one or more of said regions for adjusting said lens. And, said lens may include a focal region for one of said points at least partially surrounded by a base region, said lens having a magnification, said magnification being uniform in said focal region and varying in said base region such

that said lens is continuous from regions outside said lens through said base region to said focal region, and said GUI includes at least one of: a slide bar icon for adjusting said magnification for said lens; a slide bar icon for adjusting a degree of scooping for said lens; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said focal region; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said base region; a move icon for adjusting a location for said lens on said boundary; a pickup icon for adjusting a location for said base region within said original image; and, a fold icon for adjusting a location for said focal region relative to said base region. --

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Please find enclosed a completed Form PTO/SB/44 ("Certificate of Correction") indicating the above corrections.

The above corrections are fully supported by the Examiner's "Response to Rule 312 Communication" of June 30, 2006. A copy of this document is enclosed for reference.

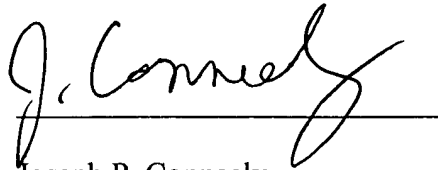
No new matter has been entered by the above corrections.

Respectfully submitted,

McCarthy Tétrault LLP

Date: October 2, 2006

By

A handwritten signature in black ink, appearing to read "J. Conneely", is written over a horizontal line.

Joseph P. Conneely
Registration No. 54,883
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66 Wellington Street West
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Toronto, Ontario, Canada
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Enclosures

OCT 10 2006

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 1 of 5

PATENT NO. : 7,084,886
APPLICATION NO.: 10/614,754
ISSUE DATE : August 1, 2006
INVENTOR(S) : Jetha, et al.

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1. Claim 6, column 21, line 3: Replace the second occurrence of the word -- said -- with the word -- a -- .
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MAILING ADDRESS OF SENDER (Please do not use customer number below):

McCarthy Tetrault LLP, Box 48, Suite 4700, 66 Wellington Street West, Toronto, Ontario, Canada M5K 1E6

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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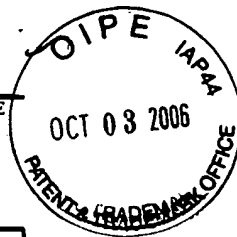
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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov



APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,754	07/08/2003	Zeenat Jetha	16350-32US	6139

27155 7590 06/30/2006

MCCARTHY TETRAULT LLP
BOX 48, SUITE 4700,
66WELLINGTON STREET WEST
TORONTO, ON M5K 1E6
CANADA

EXAMINER

LUU, MATTHEW

ART UNIT	PAPER NUMBER
----------	--------------

3663

DATE MAILED: 06/30/2006

Please find below and/or attached an Office communication concerning this application or proceeding.



Response to Rule 312 Communication

Application No.	Applicant(s)	
10/614,754	JETHA ET AL.	
Examiner	Art Unit	
LUU MATTHEW	3663	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

1. ☒ The amendment filed on 30 May 2006 under 37 CFR 1.312 has been considered, and has been:

a) ☒ entered.

b) ☐ entered as directed to matters of form not affecting the scope of the invention.

c) ☐ disapproved because the amendment was filed after the payment of the issue fee.

Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue.

d) ☐ disapproved. See explanation below.

e) ☐ entered in part. See explanation below.

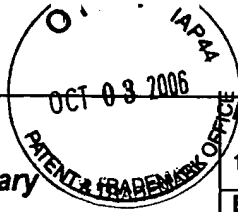
Claim 9, line 14, change "said" to "a".

Claim 27, line 9, change "said" to "a".

**MATTHEW LUU
PRIMARY EXAMINER**

OCT 10 2006

Interview Summary



Application No.	Applicant(s)	
10/614,754	JETHA ET AL.	
Examiner	Art Unit	
LUU MATTHEW	3663	

All participants (applicant, applicant's representative, PTO personnel):

- (1) LUU MATTHEW. (3) ____.
- (2) MR. JOSEPH P. CONNEELY. (4) ____.

Date of Interview: 26 June 2006.

Type: a) ☒ Telephonic b) ☐ Video Conference
c) ☐ Personal (copy given to: 1) ☐ applicant 2) ☐ applicant's representative

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☒ No.
If Yes, brief description: ____.

Claim(s) discussed: Claims 9 and 27.

Identification of prior art discussed: N/A.

Agreement with respect to the claims f) ☒ was reached. g) ☐ was not reached. h) ☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: In the amendment after final filed on May 30, 2006 (the first amendment), Claim 9, line 14, change "said" to the word "a". Claim 27, line 9, change "said" to the word "a".

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

**MATTHEW LUU
PRIMARY EXAMINER**

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

Examiner's signature, if required

Summary of Record of Interview Requirements



Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.



IN THE UNITED STATES PATENT & TRADEMARK OFFICE

Application No. : 10/614,754
Title : USING DETAIL-IN-CONTEXT LENSES FOR ACCURATE
DIGITAL IMAGE CROPPING AND MEASUREMENT
Applicant : Jetha et al.
Filed : July 8, 2003
Confirmation No. : 6139
Art Unit : 3663
Examiner : Matthew Luu
Docket No. : 198821-367626
Customer No. : 27,155

Commissioner of Patents
P.O. Box 1450
Alexandria, V.A. 22313-1450

**AMENDMENT AFTER ALLOWANCE – SUMMARY UPDATED AND CLAIMS
CORRECTED**

Sir:

This is in response to the Notice of Allowance mailed March 2, 2006.

Please amend the above-identified application as follows:

Amendments to the Specification begin on page 2 of this paper;

Amendments to the Claims are reflected in the listing of claims which begins on page 5 of this paper; and,

Remarks/Arguments begin on page 10 of this paper.

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PLEASE ENTER
ML 6/18/06

AMENDMENTS TO THE SPECIFICATION:

Please add the following new paragraphs to the "Summary of the Invention" section of the application following paragraph [0020], as published (or after the second paragraph on page 5 of the application as filed):

[0020.1] According to one aspect of the invention, there is provided a method for cropping a computer generated original image on a display, comprising the steps of: adjusting a user-selected movable boundary on said original image to define a cropped image within said boundary, said boundary defined by two or more points on said original image; distorting said original image in regions surrounding said points by applying a lens to one or more of said regions, whereby said boundary is accurately positioned for cropping; and, displaying a graphical user interface ("GUI") over one or more of said regions for adjusting said lens; wherein said lens includes a focal region and a base region and said GUI includes at least one of: a slide bar icon for adjusting a magnification for said lens; a slide bar icon for adjusting a degree of scooping for said lens; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said focal region; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said base region; a move icon for adjusting a location for said lens on said boundary; a pickup icon for adjusting a location for said base region within said original image; and, a fold icon for adjusting a location for said focal region relative to said base region. In the above method, said adjusting may be performed by moving a cursor on said display with a pointing device. The cursor may be an icon. The pointing device may be a mouse. The movable boundary may be a polygon. The original image may have one or more layers. The regions may have a predetermined selection of said layers. And, the cropped image may have a predetermined selection of said layers.

[0020.2] According to another aspect of the invention, there is provided a method for measuring within a computer generated original image on a display, comprising the steps of: adjusting a user-selected movable line segment on said original image to define points on

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said original image for measuring between; distorting said original image in regions surrounding said points by applying a lens to one or more of said regions, whereby said points are accurately positioned for measuring; and, displaying a graphical user interface ("GUI") over one or more of said regions for adjusting said lens; wherein said lens includes a focal region and a base region and said GUI includes at least one of: a slide bar icon for adjusting a magnification for said lens; a slide bar icon for adjusting a degree of scooping for said lens; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said focal region; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said base region; a move icon for adjusting a location for said lens on said boundary; a pickup icon for adjusting a location for said base region within said original image; and, a fold icon for adjusting a location for said focal region relative to said base region. In the above method, said adjusting may be performed by moving a cursor on said display with a pointing device. The cursor may be an icon. The pointing device may be a mouse. And, the line segment may be a straight line.

[0020.3] According to another aspect of the invention, there is provided a method for cropping a computer generated original image on a display, comprising: adjusting a user-selected movable boundary on said original image to define a cropped image within said boundary, said boundary defined by two or more points on said original image; and, distorting said original image in respective regions surrounding said points to produce a distorted image by displacing said original image onto a lens for each region and perspectively projecting said displacing onto a plane in a direction aligned with a viewpoint for said region, whereby said boundary is accurately positioned for cropping. In the above method, said distorting may further include displaying said boundary over said distorted image on said display. The method may further include displaying a graphical user interface ("GUI") over one or more of said regions for adjusting said lens. And, said lens may include a focal region for one of said points at least partially surrounded by a base region, said lens having a magnification, said magnification being uniform in said focal region and varying in said base region such that said lens is continuous from regions outside said lens through said base region to said focal region, and said GUI includes at least one of: a slide bar icon for adjusting said magnification for said lens; a slide bar icon for adjusting a degree of scooping

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for said lens; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said focal region; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said base region; a move icon for adjusting a location for said lens on said boundary; a pickup icon for adjusting a location for said base region within said original image; and, a fold icon for adjusting a location for said focal region relative to said base region.

[0020.4] According to another aspect of the invention, there is provided a method for measuring within a computer generated original image on a display, comprising: adjusting a user-selected movable line segment on said original image to define points on said original image for measuring between; and, distorting said original image in respective regions surrounding said points to produce a distorted image by displacing said original image onto a lens for each region and perspectively projecting said displacing onto a plane in a direction aligned with a viewpoint for said region, whereby said points are accurately positioned for measuring. In the above method, said distorting may further include displaying said line segment over said distorted image on said display. The method may further include displaying a graphical user interface ("GUI") over one or more of said regions for adjusting said lens. And, said lens may include a focal region for one of said points at least partially surrounded by a base region, said lens having a magnification, said magnification being uniform in said focal region and varying in said base region such that said lens is continuous from regions outside said lens through said base region to said focal region, and said GUI includes at least one of: a slide bar icon for adjusting said magnification for said lens; a slide bar icon for adjusting a degree of scooping for said lens; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said focal region; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said base region; a move icon for adjusting a location for said lens on said boundary; a pickup icon for adjusting a location for said base region within said original image; and, a fold icon for adjusting a location for said focal region relative to said base region.

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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Previously Presented) A method for cropping a computer generated original image on a display, comprising the steps of:

adjusting a user-selected movable boundary on said original image to define a cropped image within said boundary, said boundary defined by two or more points on said original image;

distorting said original image in regions surrounding said points by applying a lens to one or more of said regions, whereby said boundary is accurately positioned for cropping; and, displaying a graphical user interface ("GUI") over one or more of said regions for adjusting said lens;

wherein said lens includes a focal region and a base region and said GUI includes at least one of: a slide bar icon for adjusting a magnification for said lens; a slide bar icon for adjusting a degree of scooping for said lens; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said focal region; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said base region; a move icon for adjusting a location for said lens on said boundary; a pickup icon for adjusting a location for said base region within said original image; and, a fold icon for adjusting a location for said focal region relative to said base region.

2-4. (Cancelled)

5. (Previously Presented) The method of claim 1 wherein said adjusting is performed by moving a cursor on said display with a pointing device.

6. (Original) The method of claim 5 wherein said cursor is an icon.

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7. (Original) The method of claim 5 wherein said pointing device is a mouse.
8. (Original) The method of claim 1 wherein said movable boundary is a polygon.
9. (Previously Presented) A method for measuring within a computer generated original image on a display, comprising the steps of:

adjusting a user-selected movable line segment on said original image to define points on said original image for measuring between;

distorting said original image in regions surrounding said points by applying a lens to one or more of said regions, whereby said points are accurately positioned for measuring; and, displaying a graphical user interface ("GUI") over one or more of said regions for adjusting said lens;

wherein said lens includes a focal region and a base region and said GUI includes at least one of: a slide bar icon for adjusting a magnification for said lens; a slide bar icon for adjusting a degree of scooping for said lens; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said focal region; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said base region; a move icon for adjusting a location for said lens on said boundary; a pickup icon for adjusting a location for said base region within said original image; and, a fold icon for adjusting a location for said focal region relative to said base region.

10-12. (Cancelled)

13. (Previously Presented) The method of claim 9 wherein said adjusting is performed by moving a cursor on said display with a pointing device.

14. (Original) The method of claim 13 wherein said cursor is an icon.

15. (Original) The method of claim 13 wherein said pointing device is a mouse.

16. (Original) The method of claim 9 wherein said line segment is a straight line.
17. (Original) The method of claim 1 wherein said original image has one or more layers.
18. (Original) The method of claim 17 wherein said regions have a predetermined selection of said layers.
19. (Original) The method of claim 17 wherein said cropped image has a predetermined selection of said layers.
20. (Previously Presented) A method for cropping a computer generated original image on a display, comprising:
adjusting a user-selected movable boundary on said original image to define a cropped image within said boundary, said boundary defined by two or more points on said original image;
and,
distorting said original image in respective regions surrounding said points to produce a distorted image by displacing said original image onto a lens for each region and perspectively projecting said displacing onto a plane in a direction aligned with a viewpoint for said region, whereby said boundary is accurately positioned for cropping.
21. (Currently Amended) The method of claim 20 wherein said distorting further includes displaying said boundary over said distorted image on said display screen .
22. (Previously Presented) The method of claim 21 and further comprising displaying a graphical user interface ("GUI") over one or more of said regions for adjusting said lens.
23. (Previously Presented) The method of claim 22 wherein said lens includes a focal region for one of said points at least partially surrounded by a base region, said lens having a magnification, said magnification being uniform in said focal region and varying in said base region such that said lens is continuous from regions outside said lens through said base region to said focal region, and said GUI includes at least one of: a slide bar icon for adjusting said magnification for said lens; a slide

bar icon for adjusting a degree of scooping for said lens; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said focal region; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said base region; a move icon for adjusting a location for said lens on said boundary; a pickup icon for adjusting a location for said base region within said original image; and, a fold icon for adjusting a location for said focal region relative to said base region.

24. (Previously Presented) A method for measuring within a computer generated original image on a display, comprising:

adjusting a user-selected movable line segment on said original image to define points on said original image for measuring between; and,
distorting said original image in respective regions surrounding said points to produce a distorted image by displacing said original image onto a lens for each region and perspectively projecting said displacing onto a plane in a direction aligned with a viewpoint for said region, whereby said points are accurately positioned for measuring.

25. (Currently Amended) The method of claim 24 wherein said distorting further includes displaying said line segment over said distorted image on said display screen .

26. (Previously Presented) The method of claim 25 and further comprising displaying a graphical user interface ("GUI") over one or more of said regions for adjusting said lens.

27. (Previously Presented) The method of claim 26 wherein said lens includes a focal region for one of said points at least partially surrounded by a base region, said lens having a magnification, said magnification being uniform in said focal region and varying in said base region such that said lens is continuous from regions outside said lens through said base region to said focal region, and said GUI includes at least one of: a slide bar icon for adjusting said magnification for said lens; a slide bar icon for adjusting a degree of scooping for said lens; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said focal region; a bounding rectangle icon with at least one handle icon for adjusting a size and a shape for said base region; a move icon for adjusting a location for said lens on said boundary; a pickup icon for adjusting a location for said base region

within said original image; and, a fold icon for adjusting a location for said focal region relative to said base region.